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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/605,400	02/17/2004	Chii-Chang Chen	11142-US-PA	2399	
31561 75	590 08/05/2004		EXAMINER		
JIANQ CHYUN INTELLECTUAL PROPERTY OFFICE 7 FLOOR-1, NO. 100 ROOSEVELT ROAD, SECTION 2			BEN, LOHA		
			ART UNIT	PAPER NUMBER	
TAIPEI, 100			2873		
TAIWAN		•	DATE MAILED: 08/05/2004	4	

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Applic	ation No.	Applicant(s)	CO*O-			
Office Action Summary		10/60	5,400	CHEN ET AL.				
		Exami	ner	Art Unit				
		LOHA	BEN	2873				
 Period for	The MAILING DATE of this commun Reply	ication appears on	the cover sheet w	vith the correspondence ac	ddress			
THE M - Extens after Si - If the p - If NO p - Failure Any rej	RTENED STATUTORY PERIOD F ALLING DATE OF THIS COMMUN ions of time may be available under the provisions IX (6) MONTHS from the mailing date of this commercial for reply specified above is less than thirty (3) eriod for reply is specified above, the maximum state to reply within the set or extended period for reply ply received by the Office later than three months a patent term adjustment. See 37 CFR 1.704(b).	ICATION. of 37 CFR 1.136(a). In no nunication. 0) days, a reply within the atutory period will apply an will, by statute, cause the	statutory minimum of thind will expire SIX (6) MO application to become A	reply be timely filed  rty (30) days will be considered time  NTHS from the mailing date of this of the BANDONED (35 U.S.C. § 133).				
Status								
1)⊠ F	Responsive to communication(s) file	ed on 17 February	2004					
<u>-</u>	This action is <b>FINAL</b> .	<u></u>						
3) 🗌 8								
Dispositio	n of Claims							
5)□ ( 6)⊠ (	Claim(s) <u>1-6</u> is/are pending in the apart a) Of the above claim(s) is/a Claim(s) is/are allowed. Claim(s) <u>1-6</u> is/are rejected. Claim(s) is/are objected to.	•	consideration.	Ahl				
8) 🗌 (	Claim(s) are subject to restric	ction and/or electio	n requirement.	Loha Bo Primary Exa	_ • •			
Applicatio	n Papers							
10)⊠ T	he specification is objected to by the drawing(s) filed on 17 February Applicant may not request that any objected to be oath or declaration is objected to	2004 is/are: a)⊠ ction to the drawing( the correction is red	s) be held in abeya	nce. See 37 CFR 1.85(a). g(s) is objected to. See 37 C	FR 1.121(d).			
Priority un	nder 35 U.S.C. § 119							
a)	cknowledgment is made of a claim All b) Some * c) None of:  Certified copies of the priority Certified copies of the priority Copies of the certified copies application from the Internationse the attached detailed Office actions	documents have to documents have to documents have to of the priority document Bureau (PCT F	peen received. Deen received in Auments have been Rule 17.2(a)).	Application No  I received in this National	Stage			
Attachment(s	s) of References Cited (PTO-892)		A) []  -k!	Summan, /DTO 443)				
2) 🔯 Notice 3) 🔲 Informa	of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (Fation Disclosure Statement(s) (PTO-1449 or No(s)/Mail Date	•	Paper No	Summary (PTO-413) (s)/Mail Date Informal Patent Application (PT	O-152)			

Application/Control Number: 10/605,400

Art Unit: \*\*\*

### **DETAILED ACTION**

## Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-6 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In all independent claims 1, 3, 5 and 6, the recitation of a light path among the plurality of input and output ports is inconsistent. Further, no relationship between the ports and the structure is seen, in terms of arrangement.

In claims 2 and 4-6, a plurality of lights outputted from the output ports is noted; however, no lights are seen recited coming through the input ports.

#### Allowable Subject Matter

Claims 1, 3, 5 and 6 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action.

Claims 2 and 4 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

The present invention contains allowable subject matter. Vis-à-vis best reference noted, Mattia, the optical device of the present invention has a plurality of input ports, and a plurality of output ports, among other elements (common

the both inventions), whereas that of Mattia has two input ports (for input signal path and control signal path, respectively) and an output port for each photonic transistor of the plurality of the photonic transistors connected in series, with the output port of the first photonic transistor being used as one of the two input ports of the flowing photonic transistor; this input port is for passing a control signal into the second photonic transistor. In Mattia's device, a second output for each photonic transistor is not desirable.

## Minor Informality noted in the Specification

In paragraph [0011], line 3, "in" shoud be deleted.

In paragraph [0029], line 16, "between" should be deleted.

#### Communication

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Loha Ben whose telephone number is (571)272-2323. The examiner can normally be reached on Monday to Saturday, generally between 12:00 noon and 8:00 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Georgia Y. Epps, can be reached on Monday to Friday, at (571)272-2328. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

August 4, 2004

Loha Ben Primary Examiner